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PATENT SPECIFICATION



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COMPLETE SPECIFICATION.

352,274

EXAMINER'S

COPY

Div. *29*

An Improved Device for Cleaning the Teat Cups of Milking Machines.

We, GEORGE HARRY GASCOIGNE, a British Subject, of Queensmere, Wokingham, Berkshire, and JOSEPH ROGERS KNOX, a British Subject, of 7, Brunswick Hill, Reading, Berkshire, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

For the purpose of cleaning the rubber liners of teat cups of milking machines it has been customary hitherto to employ brushes of various shapes which are passed up and down the liner with a reciprocating motion. The foreign matter deposited in such liners is usually of a greasy nature and the use of a brush is not always sufficiently efficacious for the purpose intended. Moreover such brushes readily wear out and there is always a tendency for them to be kept in use after the fibres have become worn and ineffective.

Now the object of the present invention is to provide a simple and inexpensive cleaning device for the purpose specified which will not be subject to the disadvantage inherent in brushes.

With this and other objects in view the improved cleaning device constructed according to this invention comprises a rotary member with rigid scraper edges which extend lengthwise thereof and conform to the length and the longitudinal cross section of the liners to be cleaned and to the shape of the bottom of such liners and a crank handle for the purpose of rotating the same when inserted in a liner, the diameter of the device as measured at the leading edges of the scrapers being slightly in excess of the internal diameter of the liners.

In the accompanying drawing is illustrated a constructional example of the improved cleaner device:—

Fig. 1 is a front elevation of the device, and

Figs. 2 and 3 are cross sectional views of the rotary scraper member taken on the lines 2—2 and 3—3 of Fig. 1 respectively.

Referring to these Figures it may be [Price 1/-]

seen that the improved cleaning device comprises an elongated member *a* of wood, metal, or any other suitable material formed with a plurality of projecting scraper edges *b* which extend lengthwise of the body and conform to the length and the longitudinal section of the liner.

The body member *a* and its scraper edges are rounded off somewhat at one end *a'* to facilitate the insertion of the device into the teat cup liners to be cleaned and at the same time to conform to the shape of the liner at the bottom whilst at the other end the scraper edges preferably extend to a greater radius as at *a''* in order that they may project into and clean effectively the annular recess formed adjacent the upper end of the teat cup liner. The scraper edges which are either straight as shown or disposed more or less helically about the body may of course be modified in order to fit other shapes of liner.

Fixedly secured to the upper end of the member *a* is a cranked shaft *c* having a handle *d* which is preferably arranged to rotate freely thereon.

The outside diameter of the device as measured at the leading or operative edges of the scrapers is made to exceed slightly the internal diameter of the rubber liners to be cleaned, in order that an effective scraping pressure may be assured between the scraping edges and the walls of the liner when the device is being used. For the purpose of cleaning a teat cup liner it is only necessary to insert the cleaning device lengthwise into the liner and then rotate it by the crank handle whereupon the scraping action set up will effectively remove all grease and other foreign matter adhering to the walls.

Having now particularly described and ascertained the nature of our said invention and in what manner the same is to be performed, we declare that what we claim is:—

1. A device for cleaning the rubber liners of teat cups for milking machines comprising an elongated body member with scraper edges which extend lengthwise thereof and conform to the length

15-10405

GEORGE

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1 SHEET

Test cup cleaner

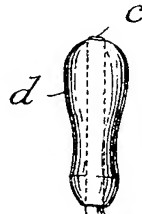


FIG. 1.

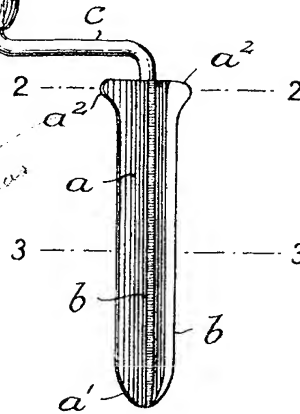


FIG. 2.



FIG. 3.



[This Drawing is a reproduction of the Original on a reduced scale.]